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$$= \int_1^2 \left(x + 2 - \frac{3}{x^2}\right) dx$$

$$= \left[\frac{x^2}{2} + 2x + \frac{3}{x}\right]_1^2 = \boxed{2}$$

$$B = \int_0^1 \frac{(2t-1)(t^2+1)^2 + 2t}{(t^2+1)^2}\, dt = \int_0^1 \left((2t-1) + \frac{2t}{(t^2+1)^2}\right) dt$$

$$= \left[t^2 - t - \frac{1}{t^2+1}\right]_1^2$$

$$= \boxed{\frac{33}{10}}$$

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